

Source Water Assessment Report



Public Water Supply: GREAT BEND, CITY OF

**Assessment Areas Include:
624, 625**



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Reports were generated with the Automated Source Water Assessment Tool (ASWAT). Assessments were completed online using ASWAT by hundreds of state employees, public water supply staff, and technical assistant providers throughout the State of Kansas.

Table Of Contents

[Report Description](#)

<u>Assessment Area 624</u>	<u>1.0</u>
<u>Executive Summary</u>	<u>1.1</u>
<u>Potential Sources</u>	<u>1.2</u>
<u>Added Sources</u>	<u>1.3</u>
<u>Potential Contaminants Summary</u>	<u>1.4</u>
<u>Potential Contaminants Listing</u>	<u>1.5</u>
<u>Protection Measures</u>	<u>1.6</u>
<u>Assessment Analysis</u>	<u>1.7</u>
<u>Site Comments</u>	<u>1.8</u>
<u>Added Site Comments</u>	<u>1.9</u>
<u>Analysis Question Comments</u>	<u>1.10</u>
<u>Assessment Area 625</u>	<u>2.0</u>
<u>Executive Summary</u>	<u>2.1</u>
<u>Potential Sources</u>	<u>2.2</u>
<u>Added Sources</u>	<u>2.3</u>
<u>Potential Contaminants Summary</u>	<u>2.4</u>
<u>Potential Contaminants Listing</u>	<u>2.5</u>
<u>Protection Measures</u>	<u>2.6</u>
<u>Assessment Analysis</u>	<u>2.7</u>
<u>Site Comments</u>	<u>2.8</u>
<u>Added Site Comments</u>	<u>2.9</u>
<u>Analysis Question Comments</u>	<u>2.10</u>

Report Description

Detailed Explanation of Entire Report:

The 1996 amendments to the Safe Drinking Water Act require each state to develop a Source Water Assessment Program (SWAP) and a Source Water Assessment (SWA) for each Public Water Supply (PWS) that treats and distributes raw source water. In Kansas there are 761 public water supplies that require SWAs. A SWA includes a delineation of the source water assessment area, an inventory of potential contaminant sources, and a susceptibility analysis.

A PWS can consist of one or more individual assessment areas that require different assessments. In general, an assessment area is delineated at a two-mile fixed radius for a groundwater well. A surface water intake assessment area is the upstream-drainage area (watershed), inside the state border. Additionally, an assessment area can consist of an individual well, group of wells, an individual surface water intake, or multiple surface water intakes.

After each assessment is completed a report is automatically generated using an Internet-based application called the Automated Source Water Assessment Tool (ASWAT). The individual assessment reports combine to form the entire SWA report for a PWS.

A map of each Assessment Area was also generated with ASWAT. However, for security reasons the maps are not included in this report. To obtain a copy of the map(s), please contact your local PWS.

All PWS reports will be available for viewing and downloading on KDHE's Watershed Management Section website(<http://www.kdhe.state.ks.us/nps>) in 2004.

GREAT BEND, CITY OF Summary:

AA	Type	Diversion Id
624	Ground water multiple wells	004, 008, 012, 009, 005, 003, 002, 010, 006, 007
625	Ground water single well	011

Public Water Supply: **GREAT BEND, CITY OF**
Assessment Area: **624**
Diversion Id's: **004, 008, 012, 009, 005, 003, 002, 010, 006, 007**
Status: **Accepted**
Submit Date: **2003-04-01 10:20:46**

Executive Summary:

The Executive Summary gives the assessment area's Susceptibility Likelihood Score (SLS) for each contaminant of concern category.

SLS indicates which contaminant category is most likely to impact a given public water supply. Contaminants of concern for groundwater include microbiological, inorganic compounds, nitrates, synthetic organic compounds, pesticides, and volatile organic compounds. Contaminants of concern for surface water include microbiological, inorganic compounds, eutrophication – phosphorus, sedimentation, synthetic organic compounds, pesticides, and volatile organic compounds.

To determine the assessment area's susceptibility to contamination, a qualitative (semi-quantitative) screening level susceptibility analysis was designed that utilizes general assumptions and best professional judgement. It is a systematic procedure comprised of simple yes/no questions. Each question in the susceptibility analysis focuses on the presence or absence of potential pollution sources in the assessment area. SLS is most useful in helping the Public Water Supply (PWS) focus on water quality protection actions towards a contaminant category of concern. For example, if the SLS for microbiological contamination is high, relative to volatile organic compounds (VOC), water supply protection planners would conclude that the attention should be directed towards microbiological contaminant sources rather than VOC sources.

Executive Summary

Public Water Supply: **GREAT BEND, CITY OF**
Assessment Area: **624**

Susceptibility Likelihood Scores for Assessment Area

Contaminant Category	A	B	B*	C	C*	D
Susceptibility Likelihood Score – SLS	66	66	61	72	62	71
SLS Range	Mid	Mid	Mid	Mid	Mid	Mid

A – Microbiological

B* – Nitrates

C* – Pesticides

B – Inorganic Compounds

C – Synthetic Organic Compounds

D – Volatile Organic Compounds

Susceptibility Likelihood Range

SLS Range	
0–50	Low Susceptibility
51–80	Moderate Susceptibility
81–100	High Susceptibility

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Potential Sources:

The Potential Sources section lists all the sites that have been identified as potential sources of contamination.

Potential sources of contamination may include land uses, industry, or businesses that could generate or store chemicals/substances that could potentially contaminate the water supply only if released into the environment. Both unregulated sites from business location databases and regulated sites from various KDHE databases were compiled. Additional sites could have been added by an evaluator through the assessment process to supplement the original data.

The 1987 Standard Industrial Classifications (SIC) were used to identify potential contaminate sites. The SIC system classifies establishments into industries on the basis of the primary activities of the establishment.

Each assessment area is delineated with 3 assessment zones. These zones can be used to get a general understanding of the potential influence sites have based on proximity to the water supply. Zone A is a 100-foot radius around a groundwater well and a 1000-foot radius around a surface water intake. Zone B is a 2000-foot radius around wells and a hydrological delineated buffer around the surface water sources. Zone C is a 2-mile radius around wells and the balance of the watershed for intakes. The potential sources listed in this section are sorted to show all the potential sources in Zone A first, Zone B second, and Zone C third.

Although a facility or business is identified in the study as a potential concern, it does not necessarily mean a release or spill has occurred. Contamination could only occur if certain chemical substances are released into the environment and filter into the water supply source.

The data for the potential sources of contamination was compiled from May through August in 2002. Some of the databases used were incomplete datasets that are continually being updated. Due to the incompleteness, inaccuracies, and new development, it is possible that sources of potential contamination that are in the assessment area are not included in the report. Inaccurate locations could also cause sources to show up in the assessment area that are not actually in the assessment. Additionally, duplication between the datasets could cause sites to show up multiple times in the assessment area.

Potential Sources

Public Water Supply: **GREAT BEND, CITY OF**
Assessment Area: **624**

Unregulated Potential Site Sources

Source No.	SIC Description	SIC ID	Zone
203120	Veterinary Services, Specialties	742	B
203121	Veterinary Services, Specialties	742	B
203806	Veterinary Services, Specialties	742	B
203807	Veterinary Services, Specialties	742	B
203888	Drilling Oil and Gas Wells	1381	B
202998	Oil and Gas Field services	1389	B
203112	Oil and Gas Field services	1389	B
203159	Oil and Gas Field services	1389	B
203169	Oil and Gas Field services	1389	B
203194	Oil and Gas Field services	1389	B
203464	Oil and Gas Field services	1389	B
203744	Oil and Gas Field services	1389	B
203753	Oil and Gas Field services	1389	B
203755	Oil and Gas Field services	1389	B
203870	Oil and Gas Field services	1389	B
203969	Oil and Gas Field services	1389	B
203987	Oil and Gas Field services	1389	B
203149	Single-family Housing Construction	1521	B

Unregulated Potential Site Sources

Source No.	SIC Description	SIC ID	Zone
203324	Single-family Housing Construction	1521	B
203942	Single-family Housing Construction	1521	B
202879	Highway and Street Construction	1611	B
203409	Highway and Street Construction	1611	B
203167	Bridge Construction	1622	B
203391	Newspapers Publishing and Printing	2711	B
203392	Newspapers Publishing and Printing	2711	B
203437	Commercial Printing-Lithographic	2752	B
203005	Commercial Printing NEC	2759	B
203175	Commercial Printing NEC	2759	B
203603	Commercial Printing NEC	2759	B
203874	Fertilizers, Mixing Manufacturing	2875	B
204052	Ready-mix Concrete Plant	3273	B
203000	Machinery, Except Electrical Manufacturing	3599	B
203754	Machinery, Except Electrical Manufacturing	3599	B
203970	Surgical and Medical Instruments Manufacturing	3841	B
202970	Signs and Advertising Display Manufacturing	3993	B
203439	Signs and Advertising Display Manufacturing	3993	B

Unregulated Potential Site Sources

Source No.	SIC Description	SIC ID	Zone
203629	Signs and Advertising Display Manufacturing	3993	B
203790	Manufacturing Industries, nec	3999	B
203871	Farm Product Warehousing and Storage	4221	B
203423	Construction and Mining Machinery	5082	B
203160	Gasoline Service Station	5541	B
203630	Gasoline Service Station	5541	B
203649	Gasoline Service Station	5541	B
203732	Gasoline Service Station	5541	B
203800	Mobile Home Park	6515	B
203347	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	B
203750	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	B
203735	Auto Truck Repair Service	7538	B
203760	Auto Truck Repair Service	7538	B
203838	Auto Truck Repair Service	7538	B
203877	Auto Truck Repair Service	7538	B
204002	Auto Truck Repair Service	7538	B
202977	Repair Services, Nec	7699	B
203008	Repair Services, Nec	7699	B
203320	Repair Services, Nec	7699	B
203670	Repair Services, Nec	7699	B

Unregulated Potential Site Sources

Source No.	SIC Description	SIC ID	Zone
203751	Racing, Including Track Operation	7948	B
204114	General Farm, Primarily Crop	191	C
204138	General Farm, Primarily Crop	191	C
203525	Cattle Farm	211	C
204016	Cattle Farm	211	C
203243	Veterinary Services, Specialties	742	C
203997	Veterinary Services, Specialties	742	C
203998	Veterinary Services, Specialties	742	C
203884	Animal Specialty Services	752	C
202872	Drilling Oil and Gas Wells	1381	C
202873	Oil and Gas Field services	1389	C
202874	Oil and Gas Field services	1389	C
202954	Oil and Gas Field services	1389	C
203057	Oil and Gas Field services	1389	C
203118	Oil and Gas Field services	1389	C
203267	Oil and Gas Field services	1389	C
203528	Oil and Gas Field services	1389	C
203764	Oil and Gas Field services	1389	C
203765	Oil and Gas Field services	1389	C
203778	Oil and Gas Field services	1389	C
203797	Oil and Gas Field services	1389	C
203836	Oil and Gas Field services	1389	C
203862	Oil and Gas Field services	1389	C

Unregulated Potential Site Sources

Source No.	SIC Description	SIC ID	Zone
203885	Oil and Gas Field services	1389	C
203899	Oil and Gas Field services	1389	C
203930	Oil and Gas Field services	1389	C
203938	Oil and Gas Field services	1389	C
203957	Oil and Gas Field services	1389	C
203980	Oil and Gas Field services	1389	C
203984	Oil and Gas Field services	1389	C
204028	Oil and Gas Field services	1389	C
204086	Oil and Gas Field services	1389	C
204127	Oil and Gas Field services	1389	C
202875	Single-family Housing Construction	1521	C
202876	Single-family Housing Construction	1521	C
203863	Single-family Housing Construction	1521	C
203907	Single-family Housing Construction	1521	C
203952	Single-family Housing Construction	1521	C
203988	Single-family Housing Construction	1521	C
204067	Single-family Housing Construction	1521	C
204099	Single-family Housing Construction	1521	C
202877	Nonresidential Construction	1542	C
203027	Nonresidential Construction	1542	C
203779	Nonresidential Construction	1542	C
204003	Nonresidential Construction	1542	C
202878	Highway and Street Construction	1611	C

Unregulated Potential Site Sources

Source No.	SIC Description	SIC ID	Zone
204084	Highway and Street Construction	1611	C
203953	Wrecking and Demolition Work, Construction Demolition Landfill	1795	C
203954	Wrecking and Demolition Work, Construction Demolition Landfill	1795	C
202891	Meat Packing Plant Manufacturing	2011	C
204131	Animal and Marine Fats and Oils Manufacturing	2077	C
203226	Commercial Printing–Lithographic	2752	C
203831	Commercial Printing–Lithographic	2752	C
203916	Commercial Printing–Lithographic	2752	C
203227	Commercial Printing NEC	2759	C
202892	Petroleum Refining	2911	C
203837	Tires and Inner Tubes Manufacturing	3011	C
204096	Mineral Wool Manufacturing	3296	C
203269	Farm Machinery and Equipment	3523	C
202895	Machinery, Except Electrical Manufacturing	3599	C
203223	Machinery, Except Electrical Manufacturing	3599	C
203766	Machinery, Except Electrical Manufacturing	3599	C
203881	Machinery, Except Electrical Manufacturing	3599	C

Unregulated Potential Site Sources

Source No.	SIC Description	SIC ID	Zone
204012	Machinery, Except Electrical Manufacturing	3599	C
202896	Motor vehicle Parts and Accessories Manufacturing	3714	C
204018	Truck Trailers Manufacturing	3715	C
202897	Signs and Advertising Display Manufacturing	3993	C
203239	Signs and Advertising Display Manufacturing	3993	C
202901	Refuse Systems	4953	C
203529	Refuse Systems	4953	C
203925	Refuse Systems	4953	C
203929	Refuse Systems	4953	C
204132	Refuse Systems	4953	C
202903	Recreational vehicle sales and repair	5012	C
202908	Construction and Mining Machinery	5082	C
203253	Construction and Mining Machinery	5082	C
204072	Construction and Mining Machinery	5082	C
202909	Farm and Garden Machinery	5083	C
203827	Scrap and Waste Materials	5093	C
203861	Scrap and Waste Materials	5093	C
203265	Gasoline Service Station	5541	C
203909	Recreational vehicle sales and repair	5561	C

Unregulated Potential Site Sources

Source No.	SIC Description	SIC ID	Zone
203922	Mobile Home Park	6515	C
202921	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	C
202958	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	C
203028	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	C
203073	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	C
203485	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	C
203890	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	C
202922	Auto Truck Repair Service	7538	C
202923	Auto Truck Repair Service	7538	C
202924	Auto Truck Repair Service	7538	C
202925	Auto Truck Repair Service	7538	C
203262	Auto Truck Repair Service	7538	C
203793	Auto Truck Repair Service	7538	C
203795	Auto Truck Repair Service	7538	C
203886	Auto Truck Repair Service	7538	C
203931	Auto Truck Repair Service	7538	C
203958	Auto Truck Repair Service	7538	C

Unregulated Potential Site Sources

Source No.	SIC Description	SIC ID	Zone
203979	Auto Truck Repair Service	7538	C
204024	Auto Truck Repair Service	7538	C
204125	Auto Truck Repair Service	7538	C
204143	Auto Truck Repair Service	7538	C
203054	Car Wash	7542	C
202927	Racing, Including Track Operation	7948	C

Regulated Confined Animal Feeding Operations Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
2000047	Guthrie Wilkens Trailer Company	A-UABT-T001	C
2000099	Miller, Glenn	A-UABT-BA06	C
2000329	Teichmann, Larry D.	A-UABT-SA04	C
2000653	Clarke, J. Don	A-UABT-BA05	C
2000962	Appaloosa Acres	A-UABT-EA02	C
2002547	Hiss, Inc.	A-UABT-D001	C

Regulated Hazardous Waste Potential Site Sources

Did Not Contain Any Of These Potential Site Sources

Regulated Leaking Storage Tank Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
3000030	Allied Cementing Co	00146	B

Regulated Leaking Storage Tank Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
3000454	Great Bend Coop	05601	B
3000509	Central Ks Med Ctr	06149	B
3001022	Dove Buick Oldsmobile Cadillac	13826	B
3001187	Sanko Service	19829	B
3001393	Taylor Petroleum #610	25035	B
3001528	Great Bend, Shop	25771	B
3001585	Concrete Service Co	26033	B
3001657	Homeco	26324	B
3001682	Kmart #9501	26440	B
3001782	Aps Inc	26876	B
3001813	Ups	27044	B
3001826	Lahars Repair	27080	B
3002008	Marmie Ford Inc	28046	B
3002458	Riverside Service	70007	B
3002750	Ball, Mark	81421	B
3000047	Western Resources	00263	C
3000384	Jomax Construction	04760	C
3000388	Barton Co, Shop	04818	C
3000549	Mr R's North #11	06344	C
3001245	Westside 66	22762	C
3001259	Damac Drilling	23120	C
3001527	Great Bend, Park Dept	25769	C
3001615	Murray Casing	26148	C

Regulated Leaking Storage Tank Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
3001655	Zip Stop	26311	C
3001757	Kdot, Great Bend	26727	C
3001934	Schlumberger Well Serv	27528	C
3002047	Telecomms Exch	28264	C
3002272	Wal-mart #770	29421	C
3002341	Ld Drilling	29725	C
3002463	Westen Atlas Logging Service	70024	C
3002756	Guthrie Tank Cleaning	81430	C
3002798	Brittain's Western Wear	81545	C

Regulated Identified Contaminated Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
7000869	EXXON CHEMICAL	C600503002	B
7000878	12TH WILLIAMS, GREAT BEND	C600570074	B
7000864	DRESSER IND. INC. – DRESSER TITAN DIV.	C600500018	C
7000868	GREAT BEND FORMER REFINERY SITE	C600500292	C
7000873	FRITZLER TRUCKING	C600503006	C

Regulated Solid Waste Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
5000535	Stone Sand Co.	0520-S	B

Regulated Solid Waste Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
5000912	Becker Tire Treading, Inc.	2080-T	B
5000488	Westhoff Sand Co., Inc.	0472-S	C
5000576	Stone Sand Co.	0564-S	C
5000587	City of Great Bend	0575-S	C
5000653	Becker Tire and Treading, Inc.	0641-S	C
5000862	Becker Tire Retreading, Inc.	2003-T	C

Regulated Waste Water Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
6000284	KANSAS OIL COMPANY	I-UA16-PO12	B
6000921	GREAT BEND PUBLIC LIBRARY	I-UA16-CO02	B
6000216	SHIRLEY M. LUTHER SITE	I-UA16-PO08	C
6000920	GREAT BEND PACKING CO.	I-UA16-BO01	C
6001848	GREAT BEND (MAIN PLANT)	M-UA16-OO01	C
6001849	GREAT BEND (MAIN PLANT)	M-UA16-OO01	C

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Added Sources:

The Added Sources section lists all the sites that have been added as potential sources of contamination by an evaluator through the assessment process to supplement the original data.

The potential sources listed in this section are sorted to show the added potential sources in Zone A first, Zone B second, and Zone C third.

Although a facility or business was added as a potential concern, it does not necessarily mean a release or spill has occurred. Contamination could only occur if certain chemical substances are released into the environment and filter into the water supply source.

Added Sources

Public Water Supply: **GREAT BEND, CITY OF**
Assessment Area: **624**

Added Potential Site Sources

Source No.	Source Name	SIC ID	Zone
Did Not Add Any Site Sources			

Public Water Supply: **GREAT BEND, CITY OF**
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Potential Contaminants Summary:

The Contaminants Summary shows the number of identified unregulated sources in the assessment area for each contaminant of concern category.

In order to obtain the number of sources for each category, a relationship was correlated between each Standard Industrial Classification (SIC) and the contaminant of concern categories. Each SIC was assessed and associated with contaminant categories. For example, if not managed properly, a car wash (SIC 7542) could potentially contaminate an intake because of inorganic compounds (IOC) and volatile organic compounds (VOC); thus, a car wash is associated with IOCs and VOCs.

A chart displays a count for each contaminant category. The sum for each category represents the total number of identified sources that have been associated with that particular contaminant category. However, the total number of identified sources does not include contaminants from the Added Sources. In our example, a car wash would be considered 2 sources of contamination. It would be a potential source of contamination for IOCs and for VOCs; thus, 1 would be added to the total number of sources in the VOC category and 1 would be added to the IOC category.

Potential Contaminants Summary

Public Water Supply: **GREAT BEND, CITY OF**
Assessment Area: **624**

Number of Unregulated Site Sources Identified for each Contaminant Category

MicroBiological	Pesticides	IOC's	SOC's	VOC's	Nitrates
30	9	132	63	68	25

A – Microbiological

B* – Nitrates

C* – Pesticides

B – Inorganic Compounds

C – Synthetic Organic Compounds

D – Volatile Organic Compounds

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Potential Contaminants Listing:

The Potential Contaminants section lists the contaminant of concern category associated with each Standard Industrial Classification (SIC) found in an assessment area. A complete list of contaminant category codes are located at the bottom of this page.

The relationships defined between the Standard Industrial Classifications (SIC) and the contaminant of concern categories are displayed in a table format. Using our car wash example, the relationships can be better illustrated. A car wash could release IOC and VOC chemical substances. The connection is shown by indicating the SIC, 7542, and the associated contaminant categories, IOC (Category B) and VOC (Category D). However, the contaminants listed are not associated with any Added Sources.

The list is sorted by the SIC source description and it only shows unique SIC sources. For example, an assessment area can have 20 car washes in an assessment area, but the list is only going to show contaminant categories associated with car washes onetime. This is because all car washes have the same SIC and every car wash poses the same potential threat to water intakes.

A – Microbiological **B** – Inorganic Compounds **B1** – Eutrophication – Phosphorous
B2 – Sedimentation **B*** – Nitrates **C** – Synthetic Organic Compounds
C* – Pesticides **D** – Volatile Organic Compounds

Potential Contaminants Listing

Public Water Supply: **GREAT BEND, CITY OF**
Assessment Area: **624**

Unregulated Identified Site Sources and associated Potential Contaminant Category

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
2077	Animal and Marine Fats and Oils Manufacturing	BOD, oil and grease, TSS	A
"	"	"	B
7538	Auto Truck Repair Service	Inorganics, VOCs	B
"	"	"	D
1622	Bridge Construction	Sedimentation	B2
7542	Car Wash	Inorganics, VOCs	B
"	"	"	B1
"	"	"	B2
"	"	"	D
211	Cattle Farm	Sanitary, Fertilizers TSS, pesticides, Erosion and sedimentation	A
"	"	"	B
"	"	"	B1
"	"	"	B2
"	"	"	B*
"	"	"	C*
5082	Construction and Mining Machinery	NA	NA
1381	Drilling Oil and Gas Wells	Oil, Salt Water	B

Unregulated Identified Site Sources and associated Potential Contaminant Category.

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
1381	Drilling Oil and Gas Wells	Oil, Salt Water	C
2875	Fertilizers, Mixing Manufacturing	Nitrogen, phosphorous	B
"	"	"	B*
5541	Gasoline Service Station	Inorganics, VOCs	B
"	"	"	D
1611	Highway and Street Construction	Sedimentation	B2
3599	Machinery, Except Electrical Manufacturing	inorganics, VOCs	B
"	"	"	D
3999	Manufacturing Industries, nec	inorganics, VOCs	B
"	"	"	D
2011	Meat Packing Plant Manufacturing	BOD, pathogens, Oil and grease	A
"	"	"	B*
3296	Mineral Wool Manufacturing	Metals, minerals and TSS	B
6515	Mobile Home Park	Sanitary wastes, Fertilizers	A
"	"	"	B
"	"	"	B1
"	"	"	B*
3714	Motor vehicle Parts and Accessories Manufacturing	inorganics, VOCs	B
"	"	"	D

Unregulated Identified Site Sources and associated Potential Contaminant Category.

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
1542	Nonresidential Construction	Sedimentation	B2
1389	Oil and Gas Field services	Oil, Salt Water	B
"	"	"	C
2911	Petroleum Refining	inorganics, VOCs	B
"	"	"	D
3273	Ready-mix Concrete Plant	Minerals and TSS	B
5093	Scrap and Waste Materials	Metals, TSS	B
3993	Signs and Advertising Display Manufacturing	inorganics, VOCs	B
"	"	"	D
1521	Single-family Housing Construction	Oil, Paint, Pesticides, Fertilizers	A
"	"	"	B1
"	"	"	B2
"	"	"	B*
"	"	"	C
3841	Surgical and Medical Instruments Manufacturing	inorganics, VOCs	B
"	"	"	D
3011	Tires and Inner Tubes Manufacturing	Inorganics, metals, VOCs	B
"	"	"	D
7532	Top, Body, and Upholstery Repair Shops and Paint Shops	Inorganics, VOCs	B

Unregulated Identified Site Sources and associated Potential Contaminant Category.

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
7532	Top, Body, and Upholstery Repair Shops and Paint Shops	Inorganics, VOCs	D
3715	Truck Trailers Manufacturing	inorganics, VOCs	B
"	"	"	D
742	Veterinary Services, Specialties	Sanitary, Inorganics TSS	A
"	"	"	B
1795	Wrecking and Demolition Work, Construction Demolition Landfill	TSS, could contain metals	B1
"	"	"	B2
752	Animal Specialty Services	Sanitary, fertilizers	A
"	"	"	B
"	"	"	B1
"	"	"	B2
"	"	"	B*
2759	Commercial Printing NEC	Inorganics, VOCs, Semi volatiles	B
"	"	"	C
"	"	"	D
2752	Commercial Printing–Lithographic	Inorganics, VOCs, Semi volatiles	B
"	"	"	C
"	"	"	D
3523	Farm Machinery and Equipment	inorganics	B

Unregulated Identified Site Sources and associated Potential Contaminant Category.

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
3523	Farm Machinery and Equipment	inorganics	D
4221	Farm Product Warehousing and Storage	TSS, VOCs	B
"	"	"	D
5083	Farm and Garden Machinery	inorganics	B
191	General Farm, Primarily Crop	fertilizers, Pesticides	B
"	"	"	B1
"	"	"	B2
"	"	"	B*
"	"	"	C*
2711	Newspapers Publishing and Printing	Inorganics, VOCs, Semi volatiles	B
"	"	"	C
"	"	"	D
7948	Racing, Including Track Operation		NA
5012	Recreational vehicle sales and repair	Inorganics	B
5561	Recreational vehicle sales and repair	Inorganics	B
4953	Refuse Systems	ALL	A
"	"	"	B
"	"	"	B1
"	"	"	B2

Unregulated Identified Site Sources and associated Potential Contaminant Category.

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
4953	Refuse Systems	ALL	B*
"	"	"	C
"	"	"	C*
"	"	"	D
7699	Repair Services, Nec	inorganics	B

Public Water Supply: **GREAT BEND, CITY OF**
Assessment Area: **624**
Diversion Id's: **004, 008, 012, 009, 005, 003, 002, 010, 006, 007**
Status: **Accepted**
Submit Date: **2003-04-01 10:20:46**

Protection Measures:

The Protection Measures section shows water quality protection measures for the Standard Industrial Classifications (SIC) identified in the assessment area.

Previous sections of this report are designed to show areas that Public Water Supplies (PWS) can focus on to improve the susceptibility of an assessment area. This section helps identify water quality protection measures that a PWS can use as guidance for implementing action for a potential contaminant site in the assessment area. It focuses on protection measures that can reduce the risk of contamination to the water supply.

This portion of the report only displays water quality protection measures for each type of SIC found in the assessment area. It does not display protection measures for each site in the assessment area because every SIC should have the same or similar water quality protection management practices. However, the protection measures listed are not associated with any Added Sources.

Protection Measures

Public Water Supply: **GREAT BEND, CITY OF**
Assessment Area: **624**

Recommended Water Quality Protection Measures

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
2077	Animal and Marine Fats and Oils Manufacturing	BOD, oil and grease, TSS	Wastewater pretreatment and/or discharge to a POTW. Grounds maintenance and cleanup. Fat traps on sewer lines.	40 CFR 122 and State or federal Storm water pollution prevention regulations
7538	Auto Truck Repair Service	Inorganics, VOCs	Discharge to POTW. Manage oil products and used oil so that it is not in contact with water	40 CFR 442 and
1622	Bridge Construction	Sedimentation	Erosion and Sediment Control	KAR 28–16, KDHE
7542	Car Wash	Inorganics, VOCs	Install and maintain sediment and grease traps where appropriate	40 CFR 442
211	Cattle Farm	Sanitary, Fertilizers TSS, pesticides, Erosion and sedimentation	Proper application of fertilizers and pesticides. Proper cleaning of equipment and disposal of chemicals. Maintain riparian areas along waterways and keep cattle out of these areas. Proper Waste Management and Grazing Management.	KDHE–Livestock Waste Management Section, KAR 28–16, KDA, County Soil Conservation District, NRCS
5082	Construction and Mining Machinery	NA	Discharge to POTW	NA

Recommended Water Quality Protection Measures

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
1381	Drilling Oil and Gas Wells	Oil, Salt Water	Drill water retention and treatment	KAR 28–41, 45, 40 CFR 435
2875	Fertilizers, Mixing Manufacturing	Nitrogen, phosphorous	Minimize contact of product with water. Contain and treat process wastewater Protect product from contact with water.	40 CFR 418 and State or federal Storm water pollution prevention regulations
5541	Gasoline Service Station	Inorganics, VOCs	Maintain area to minimize fuel contamination	NA
1611	Highway and Street Construction	Sedimentation	Erosion and Sediment Control	KAR 28–16, KDHE
3599	Machinery, Except Electrical Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	State or federal Storm water pollution prevention regulations
3999	Manufacturing Industries, nec	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	State or federal Storm water pollution prevention regulations

Recommended Water Quality Protection Measures

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
2011	Meat Packing Plant Manufacturing	BOD, pathogens, Oil and grease	Wastewater pretreatment and/or discharge to a POTW	40CFR 432 and State or federal Storm water pollution prevention regulations
3296	Mineral Wool Manufacturing	Metals, minerals and TSS	Minimize outdoor storage and control storm water runoff. Pre-treat process wastewater prior to discharge to POTW	40 CFR 436 and State or federal Storm water pollution prevention regulations
6515	Mobile Home Park	Sanitary wastes, Fertilizers	Discharge to POTW. Minimize use of lawn chemicals	KAR 28–5
3714	Motor vehicle Parts and Accessories Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	40 CFR 464 and State or federal Storm water pollution prevention regulations
1542	Nonresidential Construction	Sedimentation	Erosion and Sediment Control	KAR 28–16, KDHE
1389	Oil and Gas Field services	Oil, Salt Water	Proper management of production wastes	KAR 28–41, 45, 40 CFR 435

Recommended Water Quality Protection Measures

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
2911	Petroleum Refining	inorganics, VOCs	Collect and pre-treat wastewater. Control storm water runoff. Minimize ground contamination with petroleum or other products	40 CFR 419 and State or federal Storm water pollution prevention regulations
3273	Ready-mix Concrete Plant	Minerals and TSS	Minimize outdoor storage and control storm water runoff.	State or federal Storm water pollution prevention regulations
5093	Scrap and Waste Materials	Metals, TSS	Minimize contact with storm water	State or federal Storm water pollution prevention regulations
3993	Signs and Advertising Display Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	40 CFR 459 and State or federal Storm water pollution prevention regulations
1521	Single-family Housing Construction	Oil, Paint, Pesticides, Fertilizers	Proper cleaning and disposal of household hazardous waste. Proper storage, application, and clean up of pesticides and fertilizers	KAR 28-48, KDHE, KDEM
3841	Surgical and Medical Instruments Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	State or federal Storm water pollution prevention regulations

Recommended Water Quality Protection Measures

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
3011	Tires and Inner Tubes Manufacturing	Inorganics, metals, VOCs	Pre-treat wastewater prior to discharge. Minimize outdoor storage and control storm water runoff.	40 CFR 428 and State or federal Storm water pollution prevention regulations
7532	Top, Body, and Upholstery Repair Shops and Paint Shops	Inorganics, VOCs	Discharge to POTW. Recycle where appropriate. Properly maintain oil product and waste. Manage paint and solvent wastes properly	NA
3715	Truck Trailers Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	State or federal Storm water pollution prevention regulations
742	Veterinary Services, Specialties	Sanitary, Inorganics TSS	Discharge to POT	NA
1795	Wrecking and Demolition Work, Construction Demolition Landfill	TSS, could contain metals	Erosion control and proper waste management, Proper cover and runoff containment for the fill area	40CFR Part 122 Storm Water Construction Permitting and KDHE Storm Water Pollution Prevention Rules, 40 CFR 445 and Solid Waste Permitting rules, Storm Water Permitting rules
752	Animal Specialty Services	Sanitary, fertilizers	Collect and treat wastes.	NA

Recommended Water Quality Protection Measures

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
2759	Commercial Printing NEC	Inorganics, VOCs, Semi volatiles	Recycle chemicals where possible. Discharge to POTW	40 CFR 459 and State or federal Storm water pollution prevention regulations
2752	Commercial Printing–Lithographic	Inorganics, VOCs, Semi volatiles	Recycle chemicals where possible. Discharge to POTW	40 CFR 459 and State or federal Storm water pollution prevention regulations
3523	Farm Machinery and Equipment	inorganics	Discharge to POTW	State or federal Storm water pollution prevention regulations
4221	Farm Product Warehousing and Storage	TSS, VOCs	Keep the area clean of grain. Use grease traps.	State or federal Storm water pollution prevention regulations
5083	Farm and Garden Machinery	inorganics	Discharge to POTW	NA
191	General Farm, Primarily Crop	fertilizers, Pesticides	Maintain good erosion control practices and minimize the use of chemicals	NA

Recommended Water Quality Protection Measures

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
2711	Newspapers Publishing and Printing	Inorganics, VOCs, Semi volatiles	Recycle chemicals where possible. Discharge to POTW	40 CFR 459 and State or federal Storm water pollution prevention regulations
7948	Racing, Including Track Operation	NA	Discharge to POTW. Minimize use of lawn chemicals. Use good erosion control practices	NA
5012	Recreational vehicle sales and repair	Inorganics	Discharge to a POTW. Store oils and lubricants properly	NA
5561	Recreational vehicle sales and repair	Inorganics	Discharge to a POTW. Store oils and lubricants properly	Discharge to a POTW. Store oils and lubricants properly
4953	Refuse Systems	ALL	Store wastes properly in order to minimize contact with storm water.	Maintain the lagoon or storage vessel properly. Control storm water run on and runoff to minimize contamination of storm water
7699	Repair Services, Nec	inorganics	Discharge to POTW	NA

Public Water Supply: **GREAT BEND, CITY OF**
Assessment Area: **624**
Diversion Id's: **004, 008, 012, 009, 005, 003, 002, 010, 006, 007**
Status: **Accepted**
Submit Date: **2003-04-01 10:20:46**

Assessment Analysis:

The Assessment Analysis section displays the numbers assigned to each contaminant of concern category for each question in the susceptibility analysis.

This analysis is based on a decision tree framework consisting of a series of yes/no questions. These questions consider the proximity of contaminant sources to the water supply intake, the type of contaminant, and the application of pollution prevention or water quality protection practices to sources of contamination. As the evaluator moves through the analytical framework, susceptibility points are accumulated based on the presence of contaminant sources in the assessment area.

After all the questions have been answered, the SLS is calculated for each contaminant of concern category. The SLS is determined by counting the number of contamination risk factors found to occur in the delineated assessment area and applying a multiplier to this number. Because the number of contaminant category risk factors is not equal, the multiplier is used to establish a common scale for the SLS of each contaminant category.

Assessment Analysis

Public Water Supply: **GREAT BEND, CITY OF**
Assessment Area: **624**

Ground Water Multiple Wells Analysis

A – Microbiological **B** – Inorganic Compounds
B* – Nitrates **C** – Synthetic Organic Compounds
C* – Pesticides **D** – Volatile Organic Compounds

No.	Question	Response	A	B	B*	C	C*	D
1	Is any well under the influence of surface water?	No	0	0	0	0	0	0
2	Do all PWS wells meet KS PWS water well construction standards?	Yes	0	0	0	0	0	0
3	Is any well less than 30 feet deep?	No	0	0	0	0	0	0
4	Is gravel pack within 20 feet of any well surface?	No	0	0	0	0	0	0
5	Does a PWS own or control all the areas around the wells?	No	1	1	1	1	1	1
6	Does Zone B consist entirely of native grass?	No	2	2	2	2	2	2
7	Is there a contaminated well in Zone B?	No	0	0	0	0	0	0
8	Is a class V UIC well present?	No	0	0	0	0	0	0
9	Are any commercial, industrial, or urban areas present in Zone B?	Yes	1	1	1	1	1	1
10	Does each industrial/commercial site and urban area have a water quality protection plan in place?	No	1	1	1	1	1	1
11	Are any non-farm home sites present in Zone B?	Yes	1	0	1	0	1	0
12	Do all the non-farm home sites have a water quality protection plan?	No	1	0	1	0	1	0
13	Are any farmsteads present in Zone B?	Yes	1	1	1	1	1	1
14	Do all farmsteads have a water quality protection plan?	No	1	1	1	1	1	1
15	Is there grazing livestock in Zone B?	Yes	1	0	1	0	0	0
16	Have all livestock producers implemented water quality protection measures?	No	1	0	1	0	0	0
17	Is there livestock confinement in Zone B?	Yes	1	1	1	0	1	0

No.	Question	Response	A	B	B*	C	C*	D
18	Is each confined animal feeding operation registered with KDHE?	Yes	0	0	0	0	0	0
19	Is there corn or grain sorghum production in Zone B?	Yes	0	0	1	0	1	0
20	Are corn/grain sorghum nutrient and pesticide management plans in use for each site?	Yes	0	0	0	0	0	0
21	Are any orchards present in Zone B?	No	0	0	0	0	0	0
22	Are orchard nutrient and pesticide management plans in use for each site?	Yes	0	0	0	0	0	0
23	Are there unsewered developments (concentrations of lagoons or septic systems) present in Zone B?	No	0	0	0	0	0	0
24	Is there a railroad or major highway in Zone B or C?	Yes	0	1	1	1	1	1
25	Is there oil production in Zone B or C?	Yes	0	1	0	1	0	1
26	Do coarse textured soils predominate Zones A, B and C?	Yes	1	1	1	1	1	1
27	Is an irrigation well located in Zone B or C?	Yes	0	1	1	1	1	1
28	Is a wastewater treatment facility in Zone B or C?	Yes	1	1	1	1	1	1
29	Is a solid waste landfill in Zone B or C?	No	0	0	0	0	0	0
30	Are there unplugged, abandoned water wells present in Zone C?	Yes	2	1	1	1	1	1
31	Are any commercial, industrial, or urban area present in Zone C?	Yes	1	1	1	1	1	1
32	Does each industrial/commercial site and urban area have a water quality protection plan in place?	No	1	1	1	1	1	1
33	Is there livestock confinement in Zone C?	Yes	1	1	1	1	1	0
34	Is each confined livestock facility registered with KDHE?	Yes	0	0	0	0	0	0
35	Do all the livestock producers have water quality protection measures in place?	Yes	0	0	0	0	0	0
36	Are cropland nutrient management plans in place?	Yes	0	0	0	0	0	0
37	Are cropland pesticide management plans in place?	Yes	0	0	0	0	0	0
38	Does a perennial stream flow into Zone C?	Yes	1	1	1	1	1	1
39	Are watershed water quality protection plans in place?	No	1	1	1	1	1	1

Public Water Supply: **GREAT BEND, CITY OF**
Assessment Area: **624**
Diversion Id's: **004, 008, 012, 009, 005, 003, 002, 010, 006, 007**
Status: **Accepted**
Submit Date: **2003-04-01 10:20:46**

Site Comments:

The Site Comments section lists all the comments that were added for the potential sources of contamination found in the assessment area.

Local comments and feedback from people that are familiar with the assessment area is an important aspect of the assessment. The comments greatly improve the assessment by adding detail to the sites that can be referenced for more information.

This local information may include comments on potential contamination threats (or lack there of), local water quality protection initiatives, etc. Adding comments are optional and are mainly focused on sources in areas that could have the greatest impact on water supply if a spill or release occurred in the environment. It is left to the discretion of the PWS and/or source water assessment committee to add comments.

Site Comments

Public Water Supply: **GREAT BEND, CITY OF**
Assessment Area: **624**

Comments for Unregulated Sites

Did Not Receive Any Comments

Comments for Regulated Confined Animal Feeding Operations Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
Teichmann, Larry D.	2000329	This facility raises sheep, swine, and beef; there are no water quality protection plans.	Nicole Fisher

Comments for Regulated Hazardous Waste Sites

Did Not Receive Any Comments

Comments for Regulated Leaking Storage Tank Sites

Did Not Receive Any Comments

Comments for Regulated Identified Contaminated Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
12TH WILLIAMS, GREAT BEND	7000878	Chlorinated solvents were found in the groundwater in 1994. Monitoring wells and monthly testing showed that the solvents greatly decreased in the water by 1995.	Nicole Fisher

Comments for Regulated Solid Waste Sites

Did Not Receive Any Comments

Comments for Regulated Waste Water Sites

Did Not Receive Any Comments

Public Water Supply: **GREAT BEND, CITY OF**
Assessment Area: **624**
Diversion Id's: **004, 008, 012, 009, 005, 003, 002, 010, 006, 007**
Status: **Accepted**
Submit Date: **2003-04-01 10:20:46**

Added Site Comments:

The Added Site Comments section lists the comments for why sites were added as a potential source of contamination found to the assessment area.

Added Site Comments

Public Water Supply: **GREAT BEND, CITY OF**
Assessment Area: **624**

Comments for Added Contaminant Sites

Added Contaminant Site Name	Site No.	Site Comments	Author
Did Not Receive Any Comments			

Public Water Supply: **GREAT BEND, CITY OF**
Assessment Area: **624**
Diversion Id's: **004, 008, 012, 009, 005, 003, 002, 010, 006, 007**
Status: **Accepted**
Submit Date: **2003-04-01 10:20:46**

Analysis Question Comments:

The Analysis Question Comments section lists all the comments that were added during analysis portion of the assessment, in which a series of yes/no questions were asked.

Evaluators have the option to add comments to questions to clarify why a response was given or to give more details to a question. Local comments and feedback from people that are familiar with the assessment area is an important aspect of the assessment. The comments greatly improve the assessment by adding clarification and details that could not be identified with a simple yes or no response.

Analysis Question Comments

Public Water Supply: **GREAT BEND, CITY OF**
Assessment Area: **624**

Comments for Analysis Questions

Analysis Question	Question Comments	Author
Did Not Receive Any Comments		

Public Water Supply: **GREAT BEND, CITY OF**
Assessment Area: **625**
Diversion Id's: **011**
Status: **Accepted**
Submit Date: **2003-04-01 10:20:22**

Executive Summary:

The Executive Summary gives the assessment area's Susceptibility Likelihood Score (SLS) for each contaminant of concern category.

SLS indicates which contaminant category is most likely to impact a given public water supply. Contaminants of concern for groundwater include microbiological, inorganic compounds, nitrates, synthetic organic compounds, pesticides, and volatile organic compounds. Contaminants of concern for surface water include microbiological, inorganic compounds, eutrophication – phosphorus, sedimentation, synthetic organic compounds, pesticides, and volatile organic compounds.

To determine the assessment area's susceptibility to contamination, a qualitative (semi-quantitative) screening level susceptibility analysis was designed that utilizes general assumptions and best professional judgement. It is a systematic procedure comprised of simple yes/no questions. Each question in the susceptibility analysis focuses on the presence or absence of potential pollution sources in the assessment area. SLS is most useful in helping the Public Water Supply (PWS) focus on water quality protection actions towards a contaminant category of concern. For example, if the SLS for microbiological contamination is high, relative to volatile organic compounds (VOC), water supply protection planners would conclude that the attention should be directed towards microbiological contaminant sources rather than VOC sources.

Executive Summary

Public Water Supply: **GREAT BEND, CITY OF**
Assessment Area: **625**

Susceptibility Likelihood Scores for Assessment Area

Contaminant Category	A	B	B*	C	C*	D
Susceptibility Likelihood Score – SLS	60	59	61	68	62	71
SLS Range	Mid	Mid	Mid	Mid	Mid	Mid

A – Microbiological

B* – Nitrates

C* – Pesticides

B – Inorganic Compounds

C – Synthetic Organic Compounds

D – Volatile Organic Compounds

Susceptibility Likelihood Range

SLS Range	
0–50	Low Susceptibility
51–80	Moderate Susceptibility
81–100	High Susceptibility

Public Water Supply: **GREAT BEND, CITY OF**
Assessment Area: **625**
Diversion Id's: **011**
Status: **Accepted**
Submit Date: **2003-04-01 10:20:22**

Potential Sources:

The Potential Sources section lists all the sites that have been identified as potential sources of contamination.

Potential sources of contamination may include land uses, industry, or businesses that could generate or store chemicals/substances that could potentially contaminate the water supply only if released into the environment. Both unregulated sites from business location databases and regulated sites from various KDHE databases were compiled. Additional sites could have been added by an evaluator through the assessment process to supplement the original data.

The 1987 Standard Industrial Classifications (SIC) were used to identify potential contaminate sites. The SIC system classifies establishments into industries on the basis of the primary activities of the establishment.

Each assessment area is delineated with 3 assessment zones. These zones can be used to get a general understanding of the potential influence sites have based on proximity to the water supply. Zone A is a 100-foot radius around a groundwater well and a 1000-foot radius around a surface water intake. Zone B is a 2000-foot radius around wells and a hydrological delineated buffer around the surface water sources. Zone C is a 2-mile radius around wells and the balance of the watershed for intakes. The potential sources listed in this section are sorted to show all the potential sources in Zone A first, Zone B second, and Zone C third.

Although a facility or business is identified in the study as a potential concern, it does not necessarily mean a release or spill has occurred. Contamination could only occur if certain chemical substances are released into the environment and filter into the water supply source.

The data for the potential sources of contamination was compiled from May through August in 2002. Some of the databases used were incomplete datasets that are continually being updated. Due to the incompleteness, inaccuracies, and new development, it is possible that sources of potential contamination that are in the assessment area are not included in the report. Inaccurate locations could also cause sources to show up in the assessment area that are not actually in the assessment. Additionally, duplication between the datasets could cause sites to show up multiple times in the assessment area.

Potential Sources

Public Water Supply: **GREAT BEND, CITY OF**
Assessment Area: **625**

Unregulated Potential Site Sources

Source No.	SIC Description	SIC ID	Zone
203930	Oil and Gas Field services	1389	B
203938	Oil and Gas Field services	1389	B
203931	Auto Truck Repair Service	7538	B
203997	Veterinary Services, Specialties	742	C
203998	Veterinary Services, Specialties	742	C
203884	Animal Specialty Services	752	C
203888	Drilling Oil and Gas Wells	1381	C
202998	Oil and Gas Field services	1389	C
203057	Oil and Gas Field services	1389	C
203464	Oil and Gas Field services	1389	C
203744	Oil and Gas Field services	1389	C
203836	Oil and Gas Field services	1389	C
203870	Oil and Gas Field services	1389	C
203885	Oil and Gas Field services	1389	C
203899	Oil and Gas Field services	1389	C
203969	Oil and Gas Field services	1389	C
204028	Oil and Gas Field services	1389	C
203324	Single-family Housing Construction	1521	C

Unregulated Potential Site Sources

Source No.	SIC Description	SIC ID	Zone
203907	Single-family Housing Construction	1521	C
204067	Single-family Housing Construction	1521	C
203027	Nonresidential Construction	1542	C
204003	Nonresidential Construction	1542	C
202879	Highway and Street Construction	1611	C
203409	Highway and Street Construction	1611	C
203391	Newspapers Publishing and Printing	2711	C
203392	Newspapers Publishing and Printing	2711	C
203437	Commercial Printing-Lithographic	2752	C
203831	Commercial Printing-Lithographic	2752	C
203916	Commercial Printing-Lithographic	2752	C
203603	Commercial Printing NEC	2759	C
203874	Fertilizers, Mixing Manufacturing	2875	C
203837	Tires and Inner Tubes Manufacturing	3011	C
204052	Ready-mix Concrete Plant	3273	C
203000	Machinery, Except Electrical Manufacturing	3599	C
203881	Machinery, Except Electrical Manufacturing	3599	C
203935	Machinery, Except Electrical Manufacturing	3599	C
203970	Surgical and Medical Instruments Manufacturing	3841	C

Unregulated Potential Site Sources

Source No.	SIC Description	SIC ID	Zone
203439	Signs and Advertising Display Manufacturing	3993	C
203629	Signs and Advertising Display Manufacturing	3993	C
203871	Farm Product Warehousing and Storage	4221	C
203925	Refuse Systems	4953	C
203929	Refuse Systems	4953	C
203423	Construction and Mining Machinery	5082	C
204072	Construction and Mining Machinery	5082	C
203827	Scrap and Waste Materials	5093	C
203861	Scrap and Waste Materials	5093	C
203630	Gasoline Service Station	5541	C
203649	Gasoline Service Station	5541	C
203732	Gasoline Service Station	5541	C
203909	Recreational vehicle sales and repair	5561	C
203922	Mobile Home Park	6515	C
203028	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	C
203073	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	C
203347	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	C
203750	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	C

Unregulated Potential Site Sources

Source No.	SIC Description	SIC ID	Zone
203890	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	C
202923	Auto Truck Repair Service	7538	C
203735	Auto Truck Repair Service	7538	C
203838	Auto Truck Repair Service	7538	C
203877	Auto Truck Repair Service	7538	C
203886	Auto Truck Repair Service	7538	C
203979	Auto Truck Repair Service	7538	C
204002	Auto Truck Repair Service	7538	C
204024	Auto Truck Repair Service	7538	C
203054	Car Wash	7542	C
203670	Repair Services, Nec	7699	C
203751	Racing, Including Track Operation	7948	C

Regulated Confined Animal Feeding Operations Potential Site Sources

Did Not Contain Any Of These Potential Site Sources

Regulated Hazardous Waste Potential Site Sources

Did Not Contain Any Of These Potential Site Sources

Regulated Leaking Storage Tank Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
3001757	Kdot, Great Bend	26727	B
3000030	Allied Cementing Co	00146	C
3000047	Western Resources	00263	C
3000388	Barton Co, Shop	04818	C
3000454	Great Bend Coop	05601	C
3000549	Mr R's North #11	06344	C
3001187	Sanko Service	19829	C
3001259	Damac Drilling	23120	C
3001393	Taylor Petroleum #610	25035	C
3001527	Great Bend, Park Dept	25769	C
3001528	Great Bend, Shop	25771	C
3001585	Concrete Service Co	26033	C
3001813	Ups	27044	C
3001826	Lahars Repair	27080	C
3002008	Marmie Ford Inc	28046	C
3002047	Telecomms Exch	28264	C
3002458	Riverside Service	70007	C
3002750	Ball, Mark	81421	C

Regulated Identified Contaminated Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
7000864	DRESSER IND. INC. – DRESSER TITAN DIV.	C600500018	B

Regulated Identified Contaminated Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
7000868	GREAT BEND FORMER REFINERY SITE	C600500292	C
7000869	EXXON CHEMICAL	C600503002	C
7000873	FRITZLER TRUCKING	C600503006	C
7000878	12TH WILLIAMS, GREAT BEND	C600570074	C

Regulated Solid Waste Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
5000535	Stone Sand Co.	0520-S	C
5000587	City of Great Bend	0575-S	C
5000653	Becker Tire and Treading, Inc.	0641-S	C
5000850	City of Ellinwood	0821-S	C
5000862	Becker Tire Retreading, Inc.	2003-T	C
5000912	Becker Tire Treading, Inc.	2080-T	C

Regulated Waste Water Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
6000216	SHIRLEY M. LUTHER SITE	I-UA16-PO08	C
6000920	GREAT BEND PACKING CO.	I-UA16-BO01	C
6000921	GREAT BEND PUBLIC LIBRARY	I-UA16-CO02	C

Regulated Waste Water Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
6001848	GREAT BEND (MAIN PLANT)	M-UA16-OO01	C
6001849	GREAT BEND (MAIN PLANT)	M-UA16-OO01	C

Public Water Supply: **GREAT BEND, CITY OF**
Assessment Area: **625**
Diversion Id's: **011**
Status: **Accepted**
Submit Date: **2003-04-01 10:20:22**

Added Sources:

The Added Sources section lists all the sites that have been added as potential sources of contamination by an evaluator through the assessment process to supplement the original data.

The potential sources listed in this section are sorted to show the added potential sources in Zone A first, Zone B second, and Zone C third.

Although a facility or business was added as a potential concern, it does not necessarily mean a release or spill has occurred. Contamination could only occur if certain chemical substances are released into the environment and filter into the water supply source.

Added Sources

Public Water Supply: **GREAT BEND, CITY OF**
Assessment Area: **625**

Added Potential Site Sources

Source No.	Source Name	SIC ID	Zone
Did Not Add Any Site Sources			

Public Water Supply: **GREAT BEND, CITY OF**
Assessment Area: **625**
Diversion Id's: **011**
Status: **Accepted**
Submit Date: **2003-04-01 10:20:22**

Potential Contaminants Summary:

The Contaminants Summary shows the number of identified unregulated sources in the assessment area for each contaminant of concern category.

In order to obtain the number of sources for each category, a relationship was correlated between each Standard Industrial Classification (SIC) and the contaminant of concern categories. Each SIC was assessed and associated with contaminant categories. For example, if not managed properly, a car wash (SIC 7542) could potentially contaminate an intake because of inorganic compounds (IOC) and volatile organic compounds (VOC); thus, a car wash is associated with IOCs and VOCs.

A chart displays a count for each contaminant category. The sum for each category represents the total number of identified sources that have been associated with that particular contaminant category. However, the total number of identified sources does not include contaminants from the Added Sources. In our example, a car wash would be considered 2 sources of contamination. It would be a potential source of contamination for IOCs and for VOCs; thus, 1 would be added to the total number of sources in the VOC category and 1 would be added to the IOC category.

Potential Contaminants Summary

Public Water Supply: **GREAT BEND, CITY OF**
Assessment Area: **625**

Number of Unregulated Site Sources Identified for each Contaminant Category

MicroBiological	Pesticides	IOC's	SOC's	VOC's	Nitrates
9	2	57	24	34	8

A – Microbiological

B* – Nitrates

C* – Pesticides

B – Inorganic Compounds

C – Synthetic Organic Compounds

D – Volatile Organic Compounds

Public Water Supply: **GREAT BEND, CITY OF**
Assessment Area: **625**
Diversion Id's: **011**
Status: **Accepted**
Submit Date: **2003-04-01 10:20:22**

Potential Contaminants Listing:

The Potential Contaminants section lists the contaminant of concern category associated with each Standard Industrial Classification (SIC) found in an assessment area. A complete list of contaminant category codes are located at the bottom of this page.

The relationships defined between the Standard Industrial Classifications (SIC) and the contaminant of concern categories are displayed in a table format. Using our car wash example, the relationships can be better illustrated. A car wash could release IOC and VOC chemical substances. The connection is shown by indicating the SIC, 7542, and the associated contaminant categories, IOC (Category B) and VOC (Category D). However, the contaminants listed are not associated with any Added Sources.

The list is sorted by the SIC source description and it only shows unique SIC sources. For example, an assessment area can have 20 car washes in an assessment area, but the list is only going to show contaminant categories associated with car washes onetime. This is because all car washes have the same SIC and every car wash poses the same potential threat to water intakes.

A – Microbiological **B** – Inorganic Compounds **B1** – Eutrophication – Phosphorous
B2 – Sedimentation **B*** – Nitrates **C** – Synthetic Organic Compounds
C* – Pesticides **D** – Volatile Organic Compounds

Potential Contaminants Listing

Public Water Supply: **GREAT BEND, CITY OF**
Assessment Area: **625**

Unregulated Identified Site Sources and associated Potential Contaminant Category

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
7538	Auto Truck Repair Service	Inorganics, VOCs	B
"	"	"	D
7542	Car Wash	Inorganics, VOCs	B
"	"	"	B1
"	"	"	B2
"	"	"	D
5082	Construction and Mining Machinery	NA	NA
1381	Drilling Oil and Gas Wells	Oil, Salt Water	B
"	"	"	C
2875	Fertilizers, Mixing Manufacturing	Nitrogen, phosphorous	B
"	"	"	B*
5541	Gasoline Service Station	Inorganics, VOCs	B
"	"	"	D
1611	Highway and Street Construction	Sedimentation	B2
3599	Machinery, Except Electrical Manufacturing	inorganics, VOCs	B
"	"	"	D
6515	Mobile Home Park	Sanitary wastes, Fertilizers	A

Unregulated Identified Site Sources and associated Potential Contaminant Category.

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
6515	Mobile Home Park	Sanitary wastes, Fertilizers	B
"	"	"	B1
"	"	"	B*
1542	Nonresidential Construction	Sedimentation	B2
1389	Oil and Gas Field services	Oil, Salt Water	B
"	"	"	C
3273	Ready-mix Concrete Plant	Minerals and TSS	B
5093	Scrap and Waste Materials	Metals, TSS	B
3993	Signs and Advertising Display Manufacturing	inorganics, VOCs	B
"	"	"	D
1521	Single-family Housing Construction	Oil, Paint, Pesticides, Fertilizers	A
"	"	"	B1
"	"	"	B2
"	"	"	B*
"	"	"	C
3841	Surgical and Medical Instruments Manufacturing	inorganics, VOCs	B
"	"	"	D
3011	Tires and Inner Tubes Manufacturing	Inorganics, metals, VOCs	B
"	"	"	D

Unregulated Identified Site Sources and associated Potential Contaminant Category.

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
7532	Top, Body, and Upholstery Repair Shops and Paint Shops	Inorganics, VOCs	B
"	"	"	D
742	Veterinary Services, Specialties	Sanitary, Inorganics TSS	A
"	"	"	B
752	Animal Specialty Services	Sanitary, fertilizers	A
"	"	"	B
"	"	"	B1
"	"	"	B2
"	"	"	B*
2759	Commercial Printing NEC	Inorganics, VOCs, Semi volatiles	B
"	"	"	C
"	"	"	D
2752	Commercial Printing–Lithographic	Inorganics, VOCs, Semi volatiles	B
"	"	"	C
"	"	"	D
4221	Farm Product Warehousing and Storage	TSS, VOCs	B
"	"	"	D
2711	Newspapers Publishing and Printing	Inorganics, VOCs, Semi volatiles	B
"	"	"	C

Unregulated Identified Site Sources and associated Potential Contaminant Category.

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
2711	Newspapers Publishing and Printing	Inorganics, VOCs, Semi volatiles	D
7948	Racing, Including Track Operation		NA
5561	Recreational vehicle sales and repair	Inorganics	B
4953	Refuse Systems	ALL	A
"	"	"	B
"	"	"	B1
"	"	"	B2
"	"	"	B*
"	"	"	C
"	"	"	C*
"	"	"	D
7699	Repair Services, Nec	inorganics	B

Public Water Supply: **GREAT BEND, CITY OF**
Assessment Area: **625**
Diversion Id's: **011**
Status: **Accepted**
Submit Date: **2003-04-01 10:20:22**

Protection Measures:

The Protection Measures section shows water quality protection measures for the Standard Industrial Classifications (SIC) identified in the assessment area.

Previous sections of this report are designed to show areas that Public Water Supplies (PWS) can focus on to improve the susceptibility of an assessment area. This section helps identify water quality protection measures that a PWS can use as guidance for implementing action for a potential contaminant site in the assessment area. It focuses on protection measures that can reduce the risk of contamination to the water supply.

This portion of the report only displays water quality protection measures for each type of SIC found in the assessment area. It does not display protection measures for each site in the assessment area because every SIC should have the same or similar water quality protection management practices. However, the protection measures listed are not associated with any Added Sources.

Protection Measures

Public Water Supply: **GREAT BEND, CITY OF**
Assessment Area: **625**

Recommended Water Quality Protection Measures

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
7538	Auto Truck Repair Service	Inorganics, VOCs	Discharge to POTW. Manage oil products and used oil so that it is not in contact with water	40 CFR 442 and
7542	Car Wash	Inorganics, VOCs	Install and maintain sediment and grease traps where appropriate	40 CFR 442
5082	Construction and Mining Machinery	NA	Discharge to POTW	NA
1381	Drilling Oil and Gas Wells	Oil, Salt Water	Drill water retention and treatment	KAR 28–41, 45, 40 CFR 435
2875	Fertilizers, Mixing Manufacturing	Nitrogen, phosphorous	Minimize contact of product with water. Contain and treat process wastewater Protect product from contact with water.	40 CFR 418 and State or federal Storm water pollution prevention regulations
5541	Gasoline Service Station	Inorganics, VOCs	Maintain area to minimize fuel contamination	NA

Recommended Water Quality Protection Measures

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
1611	Highway and Street Construction	Sedimentation	Erosion and Sediment Control	KAR 28–16, KDHE
3599	Machinery, Except Electrical Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	State or federal Storm water pollution prevention regulations
6515	Mobile Home Park	Sanitary wastes, Fertilizers	Discharge to POTW. Minimize use of lawn chemicals	KAR 28–5
1542	Nonresidential Construction	Sedimentation	Erosion and Sediment Control	KAR 28–16, KDHE
1389	Oil and Gas Field services	Oil, Salt Water	Proper management of production wastes	KAR 28–41, 45, 40 CFR 435
3273	Ready–mix Concrete Plant	Minerals and TSS	Minimize outdoor storage and control storm water runoff.	State or federal Storm water pollution prevention regulations

Recommended Water Quality Protection Measures

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
5093	Scrap and Waste Materials	Metals, TSS	Minimize contact with storm water	State or federal Storm water pollution prevention regulations
3993	Signs and Advertising Display Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	40 CFR 459 and State or federal Storm water pollution prevention regulations
1521	Single-family Housing Construction	Oil, Paint, Pesticides, Fertilizers	Proper cleaning and disposal of household hazardous waste. Proper storage, application, and clean up of pesticides and fertilizers	KAR 28–48, KDHE, KDEM
3841	Surgical and Medical Instruments Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	State or federal Storm water pollution prevention regulations
3011	Tires and Inner Tubes Manufacturing	Inorganics, metals, VOCs	Pre-treat wastewater prior to discharge. Minimize outdoor storage and control storm water runoff.	40 CFR 428 and State or federal Storm water pollution prevention regulations
7532	Top, Body, and Upholstery Repair Shops and Paint Shops	Inorganics, VOCs	Discharge to POTW. Recycle where appropriate. Properly maintain oil product and waste. Manage paint and solvent wastes properly	NA

Recommended Water Quality Protection Measures

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
742	Veterinary Services, Specialties	Sanitary, Inorganics TSS	Discharge to POT	NA
752	Animal Specialty Services	Sanitary, fertilizers	Collect and treat wastes.	NA
2759	Commercial Printing NEC	Inorganics, VOCs, Semi volatiles	Recycle chemicals where possible. Discharge to POTW	40 CFR 459 and State or federal Storm water pollution prevention regulations
2752	Commercial Printing–Lithographic	Inorganics, VOCs, Semi volatiles	Recycle chemicals where possible. Discharge to POTW	40 CFR 459 and State or federal Storm water pollution prevention regulations
4221	Farm Product Warehousing and Storage	TSS, VOCs	Keep the area clean of grain. Use grease traps.	State or federal Storm water pollution prevention regulations
2711	Newspapers Publishing and Printing	Inorganics, VOCs, Semi volatiles	Recycle chemicals where possible. Discharge to POTW	40 CFR 459 and State or federal Storm water pollution prevention regulations

Recommended Water Quality Protection Measures

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
7948	Racing, Including Track Operation	NA	Discharge to POTW. Minimize use of lawn chemicals. Use good erosion control practices	NA
5561	Recreational vehicle sales and repair	Inorganics	Discharge to a POTW. Store oils and lubricants properly	Discharge to a POTW. Store oils and lubricants properly
4953	Refuse Systems	ALL	Store wastes properly in order to minimize contact with storm water.	Maintain the lagoon or storage vessel properly. Control storm water run on and runoff to minimize contamination of storm water
7699	Repair Services, Nec	inorganics	Discharge to POTW	NA

Public Water Supply: **GREAT BEND, CITY OF**
Assessment Area: **625**
Diversion Id's: **011**
Status: **Accepted**
Submit Date: **2003-04-01 10:20:22**

Assessment Analysis:

The Assessment Analysis section displays the numbers assigned to each contaminant of concern category for each question in the susceptibility analysis.

This analysis is based on a decision tree framework consisting of a series of yes/no questions. These questions consider the proximity of contaminant sources to the water supply intake, the type of contaminant, and the application of pollution prevention or water quality protection practices to sources of contamination. As the evaluator moves through the analytical framework, susceptibility points are accumulated based on the presence of contaminant sources in the assessment area.

After all the questions have been answered, the SLS is calculated for each contaminant of concern category. The SLS is determined by counting the number of contamination risk factors found to occur in the delineated assessment area and applying a multiplier to this number. Because the number of contaminant category risk factors is not equal, the multiplier is used to establish a common scale for the SLS of each contaminant category.

Assessment Analysis

Public Water Supply: **GREAT BEND, CITY OF**
Assessment Area: **625**

Ground Water Single Well Analysis

A – Microbiological **B** – Inorganic Compounds
B* – Nitrates **C** – Synthetic Organic Compounds
C* – Pesticides **D** – Volatile Organic Compounds

No.	Question	Response	A	B	B*	C	C*	D
1	Is the well under the influence of surface water?	No	0	0	0	0	0	0
2	Does the well meet KS water well construction standards?	Yes	0	0	0	0	0	0
3	Is the depth of the well less than 30 feet?	No	0	0	0	0	0	0
4	Are there unplugged, abandoned water wells present in Zone A?	No	0	0	0	0	0	0
5	Is there gravel pack within 20 feet of the surface?	No	0	0	0	0	0	0
6	Does a PWS own or control Zone A?	No	1	1	1	1	1	1
7	Does Zone A consist entirely of native grass?	No	1	1	1	1	1	1
8	Is there a contaminated well in the Zone A?	No	0	0	0	0	0	0
9	Is a class V UIC well present?	No	0	0	0	0	0	0
10	Are any commercial, industrial, or urban areas present in Zone B?	Yes	1	1	1	1	1	1
11	Does each industrial/commercial site and urban area have a water quality protection plan in place?	No	1	1	1	1	1	1
12	Are any non-farm home sites present in Zone B?	Yes	1	0	1	0	1	0
13	Do all the non-farm home sites have a water quality protection plan?	No	1	0	1	0	1	0
14	Are any farmsteads present in Zone B?	Yes	1	1	1	1	1	1
15	Do all farmsteads have a water quality protection plan?	No	1	1	1	1	1	1
16	Does Zone B consist entirely of native grass?	No	1	1	1	1	1	1
17	Is there grazing livestock in Zone B?	Yes	1	0	1	0	0	0

No.	Question	Response	A	B	B*	C	C*	D
18	Do all the livestock producers have water quality protection measures in place?	No	1	0	1	0	0	0
19	Is there livestock confinement in Zone B?	No	0	0	0	0	0	0
20	Is each confined animal feeding operation registered with KDHE?	Yes	0	0	0	0	0	0
21	Is there corn or grain sorghum production in Zone B?	Yes	0	0	1	0	1	0
22	Are corn/grain sorghum nutrient and pesticide management plans in use for each site?	No	0	0	1	0	1	0
23	Are any orchards present in Zone B?	No	0	0	0	0	0	0
24	Are orchard nutrient and pesticide plans in use for each site?	Yes	0	0	0	0	0	0
25	Are there unsewered developments (concentrations of lagoons or septic systems) present in Zone B?	No	0	0	0	0	0	0
26	Is there a railroad or major highway in Zone B or C?	Yes	0	1	1	1	1	1
27	Is there oil production in Zone B or C?	Yes	0	1	0	1	0	1
28	Do coarse textured soils predominate Zones A, B and C?	Yes	1	1	1	1	1	1
29	Is an irrigation well located in Zone B or C?	Yes	0	1	1	1	1	1
30	Is a wastewater treatment facility in Zone B or C?	Yes	1	1	1	1	1	1
31	Is a solid waste landfill in Zone B or C?	Yes	1	1	1	1	1	1
32	Are there unplugged, abandoned water wells present in Zone B or C?	Yes	1	0	0	0	0	0
33	Are any commercial, industrial, or urban areas present in Zone C?	Yes	1	1	1	1	1	1
34	Are water quality protection plans in use for each site/area?	No	1	1	1	1	1	1
35	Is there livestock confinement in Zone C?	No	0	0	0	0	0	0
36	Is each confined livestock facility registered with KDHE?	Yes	0	0	0	0	0	0
37	Do all the livestock producers have water quality protection measures in place?	Yes	0	0	0	0	0	0
38	Are cropland nutrient management plans in place?	No	0	0	1	0	0	0
39	Are cropland pesticide management plans in place?	No	0	0	0	0	1	0
40	Does a perennial stream flow into Zone C?	Yes	1	1	1	1	1	1
41	Are watershed water quality protection plans in place?	No	1	1	1	1	1	1

Public Water Supply: **GREAT BEND, CITY OF**
Assessment Area: **625**
Diversion Id's: **011**
Status: **Accepted**
Submit Date: **2003-04-01 10:20:22**

Site Comments:

The Site Comments section lists all the comments that were added for the potential sources of contamination found in the assessment area.

Local comments and feedback from people that are familiar with the assessment area is an important aspect of the assessment. The comments greatly improve the assessment by adding detail to the sites that can be referenced for more information.

This local information may include comments on potential contamination threats (or lack there of), local water quality protection initiatives, etc. Adding comments are optional and are mainly focused on sources in areas that could have the greatest impact on water supply if a spill or release occurred in the environment. It is left to the discretion of the PWS and/or source water assessment committee to add comments.

Site Comments

Public Water Supply: **GREAT BEND, CITY OF**
Assessment Area: **625**

Comments for Unregulated Sites

Did Not Receive Any Comments

Comments for Regulated Confined Animal Feeding Operations Sites

Did Not Receive Any Comments

Comments for Regulated Hazardous Waste Sites

Did Not Receive Any Comments

Comments for Regulated Leaking Storage Tank Sites

Did Not Receive Any Comments

Comments for Regulated Identified Contaminated Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
12TH WILLIAMS, GREAT BEND	7000878	Chlorinated solvents were found in the groundwater in 1994. Monitoring wells and monthly testing showed that the solvents greatly decreased in the water by 1995.	Nicole Fisher

Comments for Regulated Solid Waste Sites

Did Not Receive Any Comments

Comments for Regulated Waste Water Sites

Did Not Receive Any Comments

Public Water Supply: **GREAT BEND, CITY OF**
Assessment Area: **625**
Diversion Id's: **011**
Status: **Accepted**
Submit Date: **2003-04-01 10:20:22**

Added Site Comments:

The Added Site Comments section lists the comments for why sites were added as a potential source of contamination found to the assessment area.

Added Site Comments

Public Water Supply: **GREAT BEND, CITY OF**
Assessment Area: **625**

Comments for Added Contaminant Sites

Added Contaminant Site Name	Site No.	Site Comments	Author
Did Not Receive Any Comments			

Public Water Supply: **GREAT BEND, CITY OF**
Assessment Area: **625**
Diversion Id's: **011**
Status: **Accepted**
Submit Date: **2003-04-01 10:20:22**

Analysis Question Comments:

The Analysis Question Comments section lists all the comments that were added during analysis portion of the assessment, in which a series of yes/no questions were asked.

Evaluators have the option to add comments to questions to clarify why a response was given or to give more details to a question. Local comments and feedback from people that are familiar with the assessment area is an important aspect of the assessment. The comments greatly improve the assessment by adding clarification and details that could not be identified with a simple yes or no response.

Analysis Question Comments

Public Water Supply: **GREAT BEND, CITY OF**
Assessment Area: **625**

Comments for Analysis Questions

Analysis Question	Question Comments	Author
Did Not Receive Any Comments		